IN THE CLAIMS:

Please cancel claims 1-35, and replace with newly added claims 36-60:

36 (New) A method for code division switching at an originating terminal, said originating terminal being located within a microport cell of a terrestrial wireless network at a given instant of time, where said network interfaces with an access radio port, comprising the steps of:

spreading a transmission signal by a PN-code assigned to an intended receiving port;

inserting an identifier of a few bits for identifying a user;

spreading payload data by an orthogonal code;

spreading the orthogonal spread payload data signal by the PN-code identifying the user with payload data; and

forwarding said PN-code spread transmission signal and said twice spread payload data signal to an access radio port.

- 37. (New) The method according to claim 36, wherein said wireless network is a CDMA network.
- 38. (New) The method according to claim 36, wherein said orthogonal code is a Walsh code.
- 39. (New) The method according to claim 36, wherein said first spreading step by said PN-code forms a preamble which is prepended to a packet.

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40. (New) A method for code division switching at an originating access radio port of a terrestrial wireless network, where said access radio port interfaces with a plurality of terminal users located within one or more microport cells, comprising the steps of:

despreading a transmission signal by orthogonal code assignments to recover microport groupings and route said microport groupings accordingly;

directing the transmission signal within the same access node according to the orthogonal code assignment; and

downconverting to an intermediate frequency.

41. (New) A method for code division switching at an originating access radio port of a terrestrial wireless network, where said access radio port interfaces with a plurality of terminal users located within one or more microport cells, comprising the steps of:

despreading a transmission signal by orthogonal code assignments to recover microport groupings and route said microport groupings accordingly;

translating the orthogonal code assignments to a packet address identifying a destination microport augmented to identify a destination access node; and

downconverting to an intermediate frequency.

42. (New) A method for code division switching at an originating terminal, said originating terminal being located within a microport cell of a terrestrial wireless network at a given instant

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in time, where said network interfaces with an access radio port, comprising the steps of:

spreading a transmission signal by a PN-code assigned to an intended receiving port;

inserting an identifier of a few bits for identifying a user;

receiving a transmission signal from an originating terminal user, containing individual user data;

spreading payload data by an orthogonal code;

spreading the orthogonal spread payload data signal by the PN-code identifying the user with payload data; and

forwarding said PN-code spread transmission signal and said twice spread payload data signal to an access radio port.

- 43. (New) The method according to claim 42, wherein said terrestrial wireless network is a CDMA network.
- 44. (New) The method according to claim 42, wherein said spreading code is a PN-code.
- 45. (New) The method according to claim 42, wherein said orthogonal code sequence is a Walsh code.
- 46. (New) The method according to claim 42, wherein said first spreading step by said PN-

code forms a preamble which is prepended to a packet.

47. (New) A method for code division switching at an originating access radio port of a terrestrial wireless network, where said access radio port interfaces with a plurality of terminal users located within one or more microport cells, comprising the steps of:

despreading a transmission signal by orthogonal code assignments to recover microport groupings and route said microport groupings accordingly;

translating the orthogonal code assignments to a packet address identifying a destination microport augmented to identify a destination access node;

downconverting to an intermediate frequency;

placing said despread transmission signal into a packet with said packet address; and

transmitting said packet to an access node for further transmission over a network.

- 48. (New) The method according to claim 47, wherein said network is a private wireline network.
- 49. (New) The method according to claim 47, wherein said network is a packet switched network.
- 50. (New) The method according to claim 47, wherein said terrestrial wireless network is a

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CDMA network.

51. (New) The method according to claim 48, wherein said private network interfaces with a public network via a routing node.

52. (New) A method for code division switching at a destination access radio port of a terrestrial wireless network, where said access radio port interfaces with a plurality of terminal users located within one or more microport cells, comprising the steps of:

receiving a packet switched transmission signal from an access node via a network;

translating a packet address into an orthogonal code sequence;

respreading said orthogonal code sequence into a transmission signal at an intermediate frequency;

upconverting said respread transmission signal; and

transmitting said respread upconverted transmission signal over the air to a destination terminal user.

53. (New) A method for code division switching at a destination access radio port of a terrestrial wireless network, where said access radio port interfaces with a plurality of terminal users located within one or more microport cells, comprising the steps of:

acquiring a preamble, which has a PN-code; processing said PN-code to insure synchronization;

sending an acknowledgement; and

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receiving payload data.

- 54. (New) The method according to claim 53, wherein said preamble is acquired using a serial/parallel acquisition circuit.
- 55. (New) The method according to claim 53, wherein said acknowledgement comprises required adjustments for an orthogonal transmission that follows.
- 56. (New) The method according to claim 53, wherein said payload data are acquired by dispreading by orthogonal and PN-codes.
- 57. (New) A method for code division switching used for interfacing a terrestrial wireless network with a network, where said wireless network interfaces with a plurality of wireless terminal users, comprising the steps of:

spreading a transmission signal by a PN-code assigned to an intended receiving port;

inserting an identifier of a few bits for identifying a user;

spreading payload data by an orthogonal code;

spreading the orthogonal spread payload data signal by the PN-code identifying the user with payload data;

forwarding, at the originating terminal, said PN-code spread transmission signal and said twice spread payload data signal to an access radio port;

despreading, at an originating access radio port, the transmission signal by orthogonal code assignments to recover microport groupings and route said microport groupings accordingly;

translating, at the originating access radio port, the orthogonal code assignments to a packet address identifying a destination microport augmented to identify a destination access node;

downconverting, at the originating access radio port, to an intermediate frequency;

depositing, at the originating access radio port, said despread transmission signal into a packet with said packet address;

transmitting, from the originating access radio port, said packet to an originating access node for further transmission over a network;

receiving, at a destination access radio port, said packet switched transmission signal from a destination access node via a core network;

translating a packet address into an orthogonal code sequence;

respreading said orthogonal code sequence into a transmission signal at an intermediate frequency;

upconverting said respread transmission signal; and

transmitting said respread upconverted transmission signal over the air to a destination terminal user.

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58. (New) A method for code division switching used for interfacing a terrestrial wireless network with a core network, where said wireless network interfaces with a plurality of wireless terminal users, comprising the steps of:

spreading a transmission signal by a PN-code assigned to an intended receiving port;

inserting an identifier of a few bits for identifying a user;

spreading payload data by an orthogonal code;

spreading the orthogonal spread payload data signal by the PN-code identifying the user with payload data;

forwarding, at the originating terminal, said PN-code spread transmission signal and said twice spread payload data signal to an access radio port;

despreading, at an originating access radio port, the transmission signal by orthogonal code assignments to recover microport groupings and route said microport groupings accordingly;

directing the transmission signal within the same access node according to the orthogonal code assignments;

downconverting, at the originating access radio port, to an intermediate frequency;

depositing, at the originating access radio port, said despread transmission signal into a packet with said packet address;

transmitting, from the originating access radio port, said packet to an originating access node for further transmission over a network;

receiving, at a destination access radio port, said packet switched transmission signal from a destination access node via a core network;

translating a packet address into an orthogonal code sequence;

respreading said orthogonal code sequence into a transmission signal at an intermediate frequency;

upconverting said respread transmission signal; and
transmitting said respread upconverted transmission signal over the air to a
destination terminal user.

- 59. (New) The method according to claim 57, wherein said first spreading step by said PN-code forms a preamble which is prepended to a packet.
- 60. (New) The method according to claim 58, wherein said first spreading step by said PN-code forms a preamble which is prepended to a packet.

IN THE ABSTRACT:

Please substitute the originally filed Abstract filed on January 26, 2001, with the attached Substitute Abstract.